

1/14

SEQUENCE LISTING

<110> SENOMYX, INC.

<120> IMPROVED ELECTROPHYSIOLOGICAL ASSAYS USING OOCYTES THAT
EXPRESS HUMAN ENaC AND THE USE OF PHENAMIL TO IMPROVE
THE EFFECT OF ENaC ENHANCERS IN ASSAYS USING MEMBRANE
POTENTIAL REPORTING DYES

<130> 54315PCT

<140> PCT/US04/021853

<141> 2004-07-09

<150> 60/485,745

<151> 2003-07-10

<150> 60/287,413

<151> 2001-05-01

<150> 10/133,573

<151> 2002-04-29

<160> 14

<170> PatentIn Ver. 3.2

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<211> 2010

<212> DNA

<213> Homo sapiens

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 Cys Gly His Tyr Leu Tyr Pro Leu Pro Arg Gly Glu Lys Tyr Cys Asn
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Val Ser Val Ser Ile Lys Val His Phe Arg Lys Leu Asp Phe Pro Ala
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Val Thr Ile Cys Asn Ile Asn Pro Tyr Lys Tyr Ser Thr Val Arg His
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Gly Arg Lys Arg Lys Val Gly Gly Ser Ile Ile His Lys Ala Ser Asn
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<212> PRT

<213> Homo sapiens

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Met Ala Glu His Arg Ser Met Asp Gly Arg Met Glu Ala Ala Thr Arg
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```

```

Gly Gly Ser His Leu Gln Ala Ala Ala Gln Thr Pro Pro Arg Pro Gly
      20                      25                      30

```

```

Pro Pro Ser Ala Pro Pro Pro Pro Pro Lys Glu Gly His Gln Glu Gly
      35                      40                      45

```

```

Leu Val Glu Leu Pro Ala Ser Phe Arg Glu Leu Leu Thr Phe Phe Cys
  50                      55                      60

```

```

Thr Asn Ala Thr Ile His Gly Ala Ile Arg Leu Val Cys Ser Arg Gly
  65                      70                      75                      80

```

```

Asn Arg Leu Lys Thr Thr Ser Trp Gly Leu Leu Ser Leu Gly Ala Leu
      85                      90                      95

```

```

Val Ala Leu Cys Trp Gln Leu Gly Leu Leu Phe Glu Arg His Trp His
     100                      105                      110

```

```

Arg Pro Val Leu Met Ala Val Ser Val His Ser Glu Arg Lys Leu Leu
     115                      120                      125

```

```

Pro Leu Val Thr Leu Cys Asp Gly Asn Pro Arg Arg Pro Ser Pro Val
     130                      135                      140

```

```

Leu Arg His Leu Glu Leu Leu Asp Glu Phe Ala Arg Glu Asn Ile Asp
     145                      150                      155                      160

```

```

Ser Leu Tyr Asn Val Asn Leu Ser Lys Gly Arg Ala Ala Leu Ser Ala
     165                      170                      175

```

```

Thr Val Pro Arg His Glu Pro Pro Phe His Leu Asp Arg Glu Ile Arg
     180                      185                      190

```

```

Leu Gln Arg Leu Ser His Ser Gly Ser Arg Val Arg Val Gly Phe Arg
     195                      200                      205

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Leu Cys Asn Ser Thr Gly Gly Asp Cys Phe Tyr Arg Gly Tyr Thr Ser
 210 215 220

Gly Val Ala Ala Val Gln Asp Trp Tyr His Phe His Tyr Val Asp Ile
 225 230 235 240

Leu Ala Leu Leu Pro Ala Ala Trp Glu Asp Ser His Gly Ser Gln Asp
 245 250 255

Gly His Phe Val Leu Ser Cys Ser Tyr Asp Gly Leu Asp Cys Gln Ala
 260 265 270

Arg Gln Phe Arg Thr Phe His His Pro Thr Tyr Gly Ser Cys Tyr Thr
 275 280 285

Val Asp Gly Val Trp Thr Ala Gln Arg Pro Gly Ile Thr His Gly Val
 290 295 300

Gly Leu Val Leu Arg Val Glu Gln Gln Pro His Leu Pro Leu Leu Ser
 305 310 315 320

Thr Leu Ala Gly Ile Arg Val Met Val His Gly Arg Asn His Thr Pro
 325 330 335

Phe Leu Gly His His Ser Phe Ser Val Arg Pro Gly Thr Glu Ala Thr
 340 345 350

Ile Ser Ile Arg Glu Asp Glu Val His Arg Leu Gly Ser Pro Tyr Gly
 355 360 365

His Cys Thr Ala Gly Gly Glu Gly Val Glu Val Glu Leu Leu His Asn
 370 375 380

Thr Ser Tyr Thr Arg Gln Ala Cys Leu Val Ser Cys Phe Gln Gln Leu
 385 390 395 400

Met Val Glu Thr Cys Ser Cys Gly Tyr Tyr Leu His Pro Leu Pro Ala
 405 410 415

Gly Ala Glu Tyr Cys Ser Ser Ala Arg His Pro Ala Trp Gly His Cys
 420 425 430

Phe Tyr Arg Leu Tyr Gln Asp Leu Glu Thr His Arg Leu Pro Cys Thr
 435 440 445

Ser Arg Cys Pro Arg Pro Cys Arg Glu Ser Ala Phe Lys Leu Ser Thr
 450 455 460

Gly Thr Ser Arg Trp Pro Ser Ala Lys Ser Ala Gly Trp Thr Leu Ala
 465 470 475 480

Thr Leu Gly Glu Gln Gly Leu Pro His Gln Ser His Arg Gln Arg Ser
 485 490 495

Ser Leu Ala Lys Ile Asn Ile Val Tyr Gln Glu Leu Asn Tyr Arg Ser
 500 505 510

Val Glu Glu Ala Pro Val Tyr Ser Val Pro Gln Leu Leu Ser Ala Met
 515 520 525

Gly Ser Leu Tyr Ser Leu Trp Phe Gly Ala Ser Val Leu Ser Leu Leu
 530 535 540

Glu Leu Leu Glu Leu Leu Leu Asp Ala Ser Ala Leu Thr Leu Val Leu
 545 550 555 560

Gly Gly Arg Arg Leu Arg Arg Ala Trp Phe Ser Trp Pro Arg Ala Ser
 565 570 575

Pro Ala Ser Gly Ala Ser Ser Ile Lys Pro Glu Ala Ser Gln Met Pro
 580 585 590

Pro Pro Ala Gly Gly Thr Ser Asp Asp Pro Glu Pro Ser Gly Pro His
 595 600 605

Leu Pro Arg Val Met Leu Pro Gly Val Leu Ala Gly Val Ser Ala Glu
 610 615 620

Glu Ser Trp Ala Gly Pro Gln Pro Leu Glu Thr Leu Asp Thr
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<210> 11

<211> 28

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

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<210> 12

<211> 28

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

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ccgctcgagg tcttggtgc tcagtgag

28

<210> 13

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 13

cgcggatccc ctcaaagtc catcctcg

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<210> 14

<211> 30

<212> DNA

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<223> Description of Artificial Sequence: Synthetic primer

<400> 14

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